

HPERC-KBL-MH

Rugged Convection Cooled System with Intel® Xeon® Processor and MIL-DTL-38999 Connectors

Features

- VITA 75 mount with passive convection cooling
- Intel® Xeon® Processor E3-1505M v6, quad-core
- 16GB DDR4-2400 with ECC soldered down
- Quad Gigabit Ethernet and 6x USB ports
- Available GPGPU on PCI Express x16 Gen3
- 3 independent displays (DVI/VGA)
- Wide temperature range: storage -40°C to +85°C, operating -40°C to +75°C
- OS support: Windows 10, RHEL 7.3



Specifications

Processor & System

CPU

Intel® Xeon® Processor E3-1505M v6, quad-core

Chipset

Intel® CM238 Chipset

GPGPU

MXM NVIDIA Quadro P1000 with 4GB GDDR5 (optional)

Memory

16GB DDR4-2400 ECC soldered down

32GB DDR4-2400 ECC soldered down (optional)

BIOS

AMI EFI

Expansion Busses

MXM (PCIe x16 Gen3)

PCI/104 Express Type 2 (PCIe Gen2)

PCI Express Mini Card (PCIe Gen2)

Standard I/O

Video

2x DVI and 1x VGA (3 simultaneous display outputs)

Audio

1x amplified stereo output

1x stereo input

LAN Chipset

4x Intel® I210 Ethernet Controller

LAN Speed

10/100/1000 Mbps

USB

6x USB 2.0

Serial Ports

7x RS-232/422

GPIO

8x digital IO

Internal Storage

Removable SATA

2x 2.5" SLC/MLC SSD on SATA 6 Gb/s

RAID 0/1

Support up to 12Gb/s

Removable SD

1x SDHC - SLC (up to 64 GB)

Security

TPM

Infineon SLB 9665XT2.0

Secure Erase (option for SSD)

Hardware input triggered

Software triggered

Power

Input: 18-36VDC

Performance: S-States S3, S4

Thermal

Internal Transfer

Top-cover heatsink cooled (free air convection)

VITA 75.21 mount

Storage Temperature

-40°C to +85°C

Operating Temperature

CPU Only: -40°C to +75°C ambient*

With MXM-P1000: -40°C to +70°C ambient*

*Note: Airflow 30 CFM, 1 atm air

Specifications

• Certifications & Standards

Immersion

IEC60529, IP-67

Salt Spray

RTCA/DO-160G, Section 14, Category S

Altitude

0 to 50,000 ft.

Relative Humidity

95% at +60°C non-condensing

Shock

MIL-STD-810G - 516.6 Procedures I and V

Vibration

MIL-STD-810G - 514.6 Procedure I
Categories 4, 9, 11, 21

EMI/EMC

MIL-STD-461F

Power

MIL-STD-704F & MIL-STD-1275E

Operating Temp.

MIL-STD-810G - 501.5 Procedure II
MIL-STD-810G - 502.5, Procedure 1 and 2

• Mechanical

Form Factor

VITA-75.21 Finned Passive Convection

Dimension

304.8 (L) x 150 (W) x 130 (H) mm (with mounting brackets)

Weight

5.54 kg

I/O Connectors

MIL-DTL-38999 (uniquely-keyed)

• Operating System

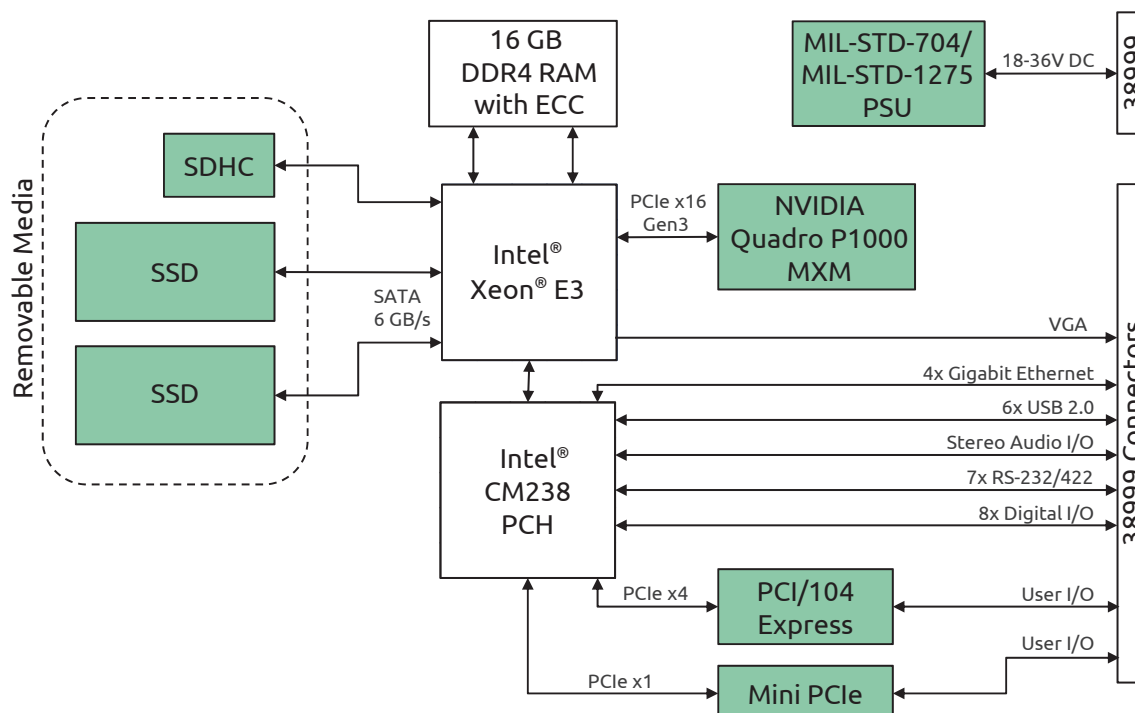
OS

Windows® 10 (64-bit)

RHEL 7.3

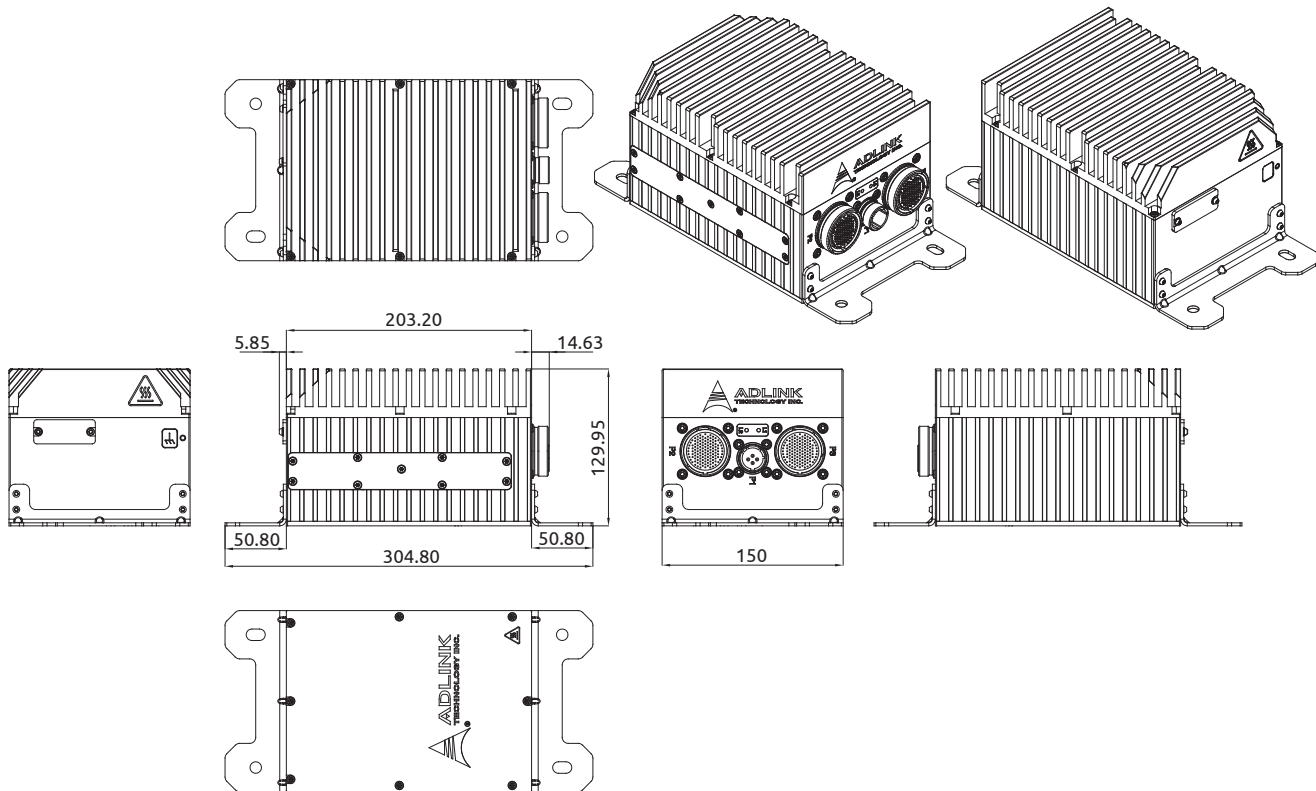
(Please contact ADLINK for other OS support)

Functional Diagram



Mechanical Drawing

(Units: mm)



Ordering Information

- **HPERC-KBLMH-100XN**
Finned-convection, Intel® Xeon® E3-1505M v6, 16GB RAM

HPERC Accessories

- **HPERC-X-03**
HPERC breakout cable kit including Amphenol MIL-STD Nkey & Akey (I/O cables), and AC adapter
- **GPU MXM module**
MXM NVIDIA Quadro P1000 GPU card, with 4GB GDDR5 memory (must be pre-assembled at ADLINK factory)



Metromatics

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